Overview of QuADRANT Work Package 3:

Main Survey
Expert Interviews
Literature Review

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ESTRO
European Society for
RADIOTHERAPY
& ONCOLOGY

Second QuADRANT Workshop
January 13-14, 2022

QuADRANT

SPECIFIC OBJECTIVES

- **review the status of implementation** of clinical audits in the Member States;
- **identify good practices** in Member States and **available guidance** and **resources** for clinical audits, at national, European and international level;
- **provide further guidance and recommendations** on improving the implementation and integration of clinical audits into national healthcare systems;
- **identify potential for further coordinated EU action** on quality and safety of radiology, radiotherapy and nuclear medicine.

Main Survey
Expert Interviews
Literature Review

MAIN SURVEY
METHODOLOGY

FINAL VERSION
OF THE MAIN SURVEY
March 2021

PRE-SURVEY
March-April 2020
of relevant national professional society contacts

online meetings
email exchange
feedback & outcomes from the WP2 workshop

WP3 TEAM
Team leader: Prof. Howlett
to prepare & refine questions for the Main Survey

SurveyMonkey

Question list for the Main Survey

PILOT VERSION
26th February 2021
↓
4th March 2021
- to test the functionality
- to finalize the questions

Consortium
Advisory Board
Steering Group

WP2 WORKSHOP
14-16 December 2020
invitations

Feedback from the:
Steering Group
Advisory Board
consortium members
members of the EC

MAIN SURVEY

DISTRIBUTION & RESPONSE RATES

25th March – 7th May 2021

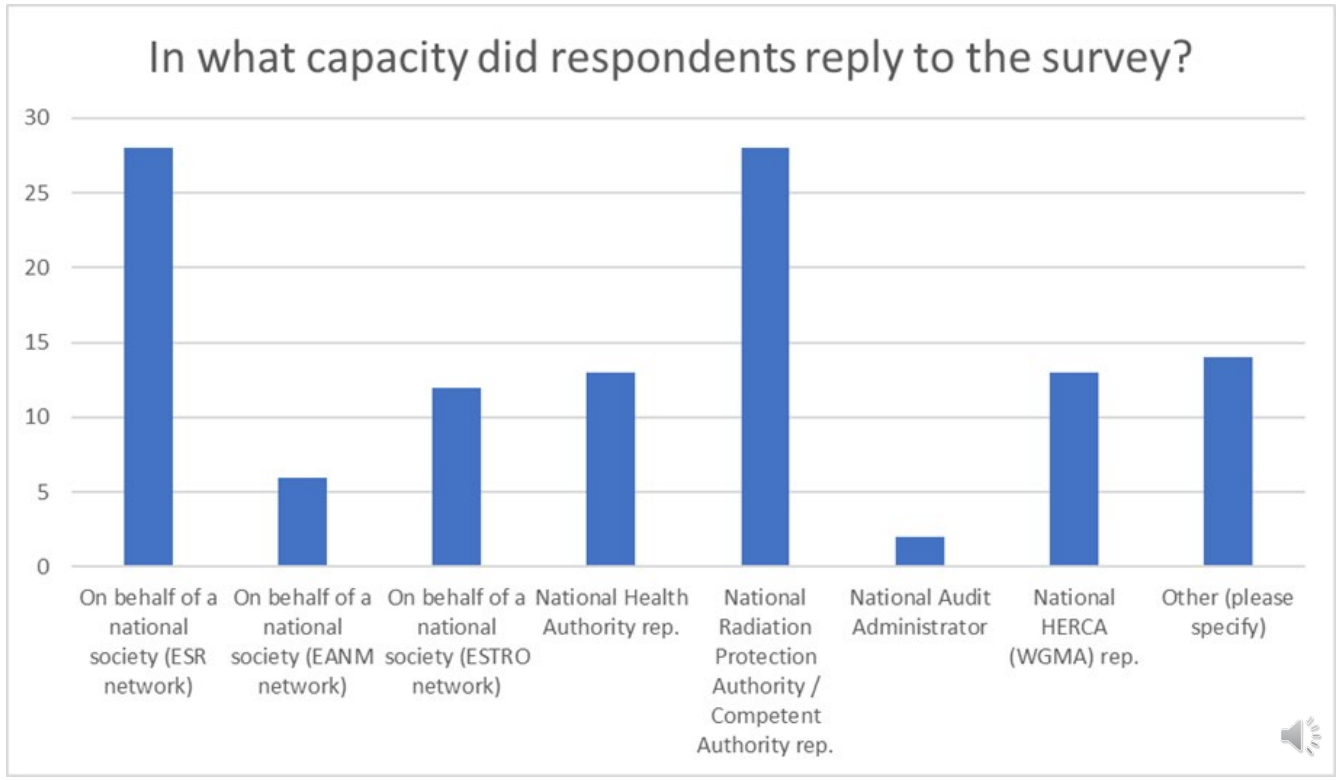
Questionnaire (28 questions in 2 sections)
- explanatory sheet
- set of definitions
- demographic data

EU 27 + 4 countries
(+ Iceland, Norway, Switzerland, UK)

83 respondents

Distribution list:

- national health authority
- national audit & radiation protection competent authority representatives
- HERCA – WGMA (via HERCA representatives in the QuADRANT)
- members of the national professional societies (by ESR, ENAM, ESTRO)



MAIN SURVEY

DISTRIBUTION & RESPONSE RATES

Country	Number of responses	Country	Number of responses	Country	Number of responses
Austria	1	**Greece**	1	**Poland**	2
Belgium	6	**Hungary**	1	**Portugal**	2
Bulgaria	3	**Iceland**	2	**Romania**	4
Croatia	1	**Ireland**	2	**Slovakia**	3
Cyprus	1	**Italy**	1	**Slovenia**	4
Czech Rep	2	**Latvia**	3	**Spain**	8
Denmark	4	**Lithuania**	2	**Sweden**	2
Estonia	3	**Luxembourg**	1	**Switzerland**	3
Finland	2	**Malta**	2	**United Kingdom**	5
France	4	**Netherlands**	4		
Germany	3	**Norway**	2		

One response = 7 countries

- national level position, 4
- representatives of national societies, 3

Multiple responses = 24 countries

- national health authority/audit administrator, 13
- national radiation protection competent authority, 28

MAIN SURVEY

CLEANING PROCES (ANALYSIS OF CONFLICTING/DIVERGENT RESPONSES)

- tick-box (»tick all options that apply«)
- dropdown (»select the single answer that applies«)

} INCLUSIVE/COMPLEMENTARY approach
HIERARCHICAL SYSTEM
to obtain a coherent single set of responses/country

- clinical audit
- practice
- infrastructure

Hierarchy for section 1 responses	Hierarchy for section 2 responses
National Health Authority rep.	National Radiation Protection Authority / Competent Authority rep.
National Audit Administrator	National HERCA (WGMA) rep.
National Radiation Protection Authority / Competent Authority rep.	National Health Authority rep.
National HERCA (WGMA) rep.	National Audit Administrator
National Society Rep.	National Society Rep.

- clinical audit as mandated within the BSSD

Responses **weighted** according to the capacity in which the respondent was answering

EXPERT INTERVIEWS
METHODOLOGY

AIM: to provide additional context for & commentary on the Main Survey

- List of interviewees: proposed by the Steering Group/Advisory Board (April 2021)
  → WP3 team selected 8+1 experts; list agreed with the EC

Name of the expert	Area of expertise	Country
Prof. Arturo Chiti	Nuclear Medicine	IT
Prof. Michael Lassmann	Nuclear Medicine	DE
Mr. Nils Reynders-Frederix	Radiology	BE
Prof. Mika Kortesniemi	Radiology	FI
Dr. Aude Vaandering	Radiotherapy	BE
Dr. Mary Coffey	Radiotherapy	IE
Ms. Rachael Ward	HERCA	UK
Ms. Alexandra Karoussou-Schreiner	HERCA	LU
Dr. Raija Seuri	Radiology	FI

- Questions for the interview: drafted by the WP3 team
  → reviewed by the Steering Group/Advisory Board (1st June – 15th June 2021)
  → 10 questions:
    personal experience
    barriers for implementation
    suggestions for potential solutions
    best practice
    view on the QuADRANT initiative & Main Survey
    key messages extracted from the answers…

- Interviews:
  - written questionnaire & written responses
  - sent on 28th June 2021, deadline 26th July 2021
  - completed by all 9 experts

EXPERT INTERVIEWS
RESULTS & CONCLUSIONS

- Understanding of the concept of CA is not uniform
- Big differences in the organization structure of CA & level of their implementation
  - ☛ insufficient priority at the national level
  - ☛ insufficient resources: financial & human

Cooperation between regulators and professional associations
Stable funding
Training in CA (within the national professional education/training programs)
Patient organizations
Common reference document (guidelines)

+
Private sector
Depts. outside of radiology/RT/NM

Participating in CO program as a requirement for:
- hospital accreditation
- healthcare professional registration to practice

?

LITERATURE REVIEW

= part of the project tender proposal

- Consortium members, Steering Group, Advisory Board

  $15^{th} \rightarrow 22^{th}$ June 2020
  $20^{th} \rightarrow 30^{th}$ April 2021 (update)

- ESR Office Staff (PubMed website)

4 teams:

- to address broad areas of the literature
  - ☛ assessment of the relevance of the assigned literature to the QuADRANT project
  - ☛ summarizing key points from the literature

Clinical Audit – led by Prof Howlett
Michael Brada, Ana Geão, Boris Brkljacic, Werner Jaschke
Radiation Protection, Justification, Safety – led by Mary-Louise Ryan
Manuel Bardies, Harry Delis, Primož Strojan
Quality Assurance – led by Gianfranco Brusadin
Wolfgang Wadsak, Efi Koutsouveli, Adrian Brady
Unclassified/Other Literature – led by Francesco Giammarile
Mary Coffey, Jörg Hausleiter, Steve Ebdon-Jackson

WP3 team

Deliverable D3.4
(August 2021)

Redrafted & additional references included
(November 2021)

93 references:

- The legal basis for Clinical Audit
- Methodological aspects of implementing clinical audit

(5 subchapters)